The 137,000 square foot NREL RSF expansion will complement the original building, a commercial prototype for high performance large-scale office buildings. The expansion project will seek LEED certification at the Platinum level and a net zero energy design. Improving on the success of the RSF, the new wing will be delivered for $13 less per square foot, and is expected to achieve a 13% savings in overall energy performance, compared to the original building. The expansion is scheduled for completion in October 2011 and will offer space for 500 additional NREL and DOE staff.

**Energy Use Intensity (EUI):** 75 kBtu/sf/yr  
**Percent CO2 reduction:** 73%  
**ENERGY STAR design rating:** 100  
**Energy savings:** 2,871,457 kBtu  
**CO2 savings:** 2,096 t CO2/yr

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.

**Compared to the RSF the RSF Expansion will include:**
- 6% more efficient roof-top photovoltaic panels  
- Improved thermal performance; reduced thermal bridging throughout the new wing  
- Improved window systems; upgraded lighting control systems  
- Increased flexibility in mechanical systems integration